STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
OFFICE OF THE COMMISSIONER

FRANK H. MURKOWSKI, GOVERNOR

3132 CHANNEL DRIVE
JUNEAU, ALASKA 99801-7898

TEXT: (907) 465-3652
FAX: (907) 586-8365
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September 26, 2005

Mr. David C. Miller, Division Administrator
Federal Highway Administration
PO Box 21648
Juneau AK 99802-1648

Attn: Peter Serrano, Transportation Planner

Mr. R.F. Krochalis, Region X Administrator
Federal Transit Administration
9150 Second Avenue, No. 3142
Seattle WA 98174

Attn: Elizabeth Sier, Planner

Subject: Fairbanks Metropolitan Area Study (FMATS)

Dear Gentlemen:

It is our pleasure to transmit copies of:

- The FMATS Transportation Improvement Plan (TIP) and Commissioner approval of Statewide Transportation Improvement Plan (STIP) Amendment #16;
- the FMATS Long Range Transportation Plan (LRTP); and
- the FMATS Air Quality Conformity Determination.

The FMATS Policy Committee approved these documents on August 17, 2005.

The STIP and TIP were developed in compliance with Title 23 - Section 134 and 135 and the State Planning Regulations. Projects that are in air quality non-attainment areas are in conformity with the State Implementation Plan for Air Quality. The STIP remains fiscally constrained.

Sincerely,

Mike Barton
Commissioner

Enclosures

cc: John MacKinnon, Deputy Commissioner of Highways & Public Facilities, DOT&PF
Jeff Ottesen, Director, Division of Program Development, DOT&PF

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Mike Barton
Commissioner

Enclosures

cc: John MacKinnon, Deputy Commissioner of Highways & Public Facilities, DOT&PF
Jeff Ottesen, Director, Division of Program Development, DOT&PF

MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities
Division of Program Development

TO: Mike Barton, Commissioner

DATE: September 22, 2005

THRU: John MacKinnon
Deputy Commissioner of
Highways & Public Facilities

TELEPHONE NO: 465-4070
TEXT TELEPHONE: 465-3652
FAX NUMBER: 465-6984

FROM: Jeff Ottesen, Director
Division of Program Development

SUBJECT: FMATS TIP
Recommended Approval /
STIP Amendment #16

The (Fairbanks Metropolitan Area Transportation Solutions (FMATS) Transportation Improvement Program (TIP), Long Range Transportation Plan (LRTP), and Air Quality Conformity determination were approved August 17, 2005 by the FMATS Policy Committee.

With the exceptions noted below, the TIP has met all requirements of US Code Title 23 – Section 134 for Metropolitan Planning Organizations (MPOs) and is financially constrained by the allocations made in the approved 2004-2006 STIP (State Transportation Improvement Program) Amendment #8.

We recommend conditional approval with the following exceptions:

1. The new federal legislation, SAFETEA-LU, significantly decreased the funding that can be allocated to MPOs. We will expect FMATS and AMATS (Anchorage Metropolitan Area Transportation System) to constrain their TIPs to the new allocations that will be provided in the near future.

2. The final allocation of 2005 federal funds was substantially less than anticipated due to changes resulting in SAFETEA-LU. FMATS share of this reduction will be reconciled to what FMATS projects were funded by the end of the year and the statewide shortfall in total 2005 funds.

Your conditional approval of the TIP, with the exceptions above, is recommended and required as the statutory designee for all state transportation planning matters.

☒ **Approved with conditions:**

Mike Barton

Mike Barton, Commissioner

Date 9/23/5

cc: David C. Miller, Alaska Division Administrator, Federal Highway Administration
Richard F. Krochalis, Region 10 Administrator, Federal Transit Administration

MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities

TO: Mike Barton
Commissioner

DATE: September 6, 2005

FILE NO: I:\Planning\1LocationFiles\FNSB\FMATS\TIP\Transmit Memo.doc

TELEPHONE NO: 451-2210

FROM: Andrew J. Niemiec, P.E.
Regional Director
Northern Region

SUBJECT: FMATS TIP, LRTP and Air Quality Conformity

Attached for your review are the Fairbanks Metropolitan Area Transportation System (FMATS) FY 06-08 Transportation Improvement Program (TIP), Long Range Transportation Plan (LRTP) and Air Quality Conformity Determination. The FMATS Policy Committee approved these documents on August 17, 2005. The FMATS TIP, LRTP and Conformity were developed in conformance with all applicable federal requirements.

To remain in conformance with federal requirements for the establishment of the FMATS MPO these documents need to be submitted to the FHWA and FTA for their approval by September 30, 2005.

Please let me know if you have questions. Thank you.

JAR/jad
attachments

cc: Jeff Ottesen, Division Director, Statewide Planning

AIR QUALITY / TRANSPORTATION PLAN CONFORMITY
FAIRBANKS MAINTENANCE AREA
FFY06-08 TIP and LRTP

Approved 17 August, 2005

The Fairbanks Metropolitan Area Transportation System (FMATS) has completed the first Transportation Improvement Program (TIP) and Long Range Transportation Plan (LRTP) for the Fairbanks Metropolitan Planning Area. The TIP is a three-year spending plan for all federal highway funds anticipated for the FMATS Area for Federal Fiscal Years (FFY) 06-08, with an additional three years, FFY09-11, included for informational and planning purposes. The LRTP is a 20-year look at transportation needs and potential solutions through FFY 2025.

A portion of the Fairbanks/North Pole area is a designated Carbon Monoxide Maintenance Area. Therefore, prior to approval of projects in the maintenance area, the State must demonstrate that the projects listed in the LRTP and TIP conform to the requirements and objectives of the most recent State Air Quality Implementation Plan (SIP).

CONFORMITY

The transportation conformity analysis is intended to demonstrate that local transportation plans, programs, and proposed projects for a maintenance area:

- Will support the attainment and maintenance of National Ambient Air Quality Standards (NAAQS) for Carbon Monoxide.
- Will not cause or contribute to any new violations of the NAAQS.
- Will not contribute to an increase in the number or severity of violations of National Ambient Air Quality Standards (NAAQS) for Carbon Monoxide.
- Will provide for expeditious implementation of Transportation Control Measures (TCM's), if any, contained in the State Implementation Plan.
- Will not in any way contradict recommendations of the State Implementation Plan.

STATUS – ATTAINMENT PROGRESS

The U.S. Environmental Protection Agency (EPA) originally designated a portion of the Fairbanks North Star Borough as a "Moderate Non-Attainment Area" for carbon monoxide (CO). This was based on an 8-hour average design value of 10.4 parts per million (ppm) of CO. Fairbanks failed to reach attainment by the end of 1995, and effective March 30, 1998, EPA formally reclassified Fairbanks to a "Serious CO Non-Attainment Area", as mandated by the 1990 Clean Air Act Amendments. Effective April 5, 2002, EPA made a determination that the Fairbanks area had attained the NAAQS for carbon monoxide. The State submited an Air Quality Maintenance Plan on June 21, 2004 and EPA made a formal "CO Maintenance Area" designation approving this plan on September 27, 2004.

Table 1
Annual Violations / Exceedences
(NAAQS for CO)

Exceedences	2	3	2	5	2	9	1	3	2	3	1	0	0	0
Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003

Exceedences	0	0*												
Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

NOTES: EPA allows one exceedence per calendar year of the National Ambient Air Quality Standard for Carbon Monoxide (9.0 ppm for an 8-hour average). Each additional exceedence is a violation.

* Recordings to date for calendar year 2005.

BACKGROUND

Air Quality Planning Authority - The Fairbanks North Star Borough is the designated lead agency that is responsible for development and implementation of an air quality plan for the Fairbanks area. The Borough also oversees the Motor Vehicle Emissions Inspection and Maintenance (I/M) Program. A 2005 Memorandum of Understanding between the Borough and the Alaska Department of Environmental Conservation (ADEC) outlines joint responsibilities to address air pollution in the Fairbanks area.

Transportation Planning Agreement – Based on the results of the 2000 Census, a portion of the Fairbanks and North Pole area was designated as an urbanized area (meets density requirements with total population of 50,000 or more). The U.S. Department of Commerce, Bureau of the Census made this designation effective May 1, 2002. Therefore, the community now falls under the requirements of USC Title 23, Section 34, which required the formation of a Metropolitan Planning Organization (MPO).

On April 14, 2003, the Governor of Alaska, formally designated the Fairbanks Metropolitan Area Transportation System (FMATS). FMATS has completed an Inter-Governmental Operating Agreement and a Memorandum of Understanding for Transportation & Air Quality Planning.

FMATS members include the Fairbanks North Star Borough, the City of Fairbanks, the City of North Pole, the Alaska Department of Transportation & Public Facilities (DOT&PF) and the Alaska Department of Environmental Conservation (DEC). The Fairbanks North Star Borough will continue as the lead agency for developing and implementing the local Air Quality Attainment Plan. FMATS members will provide technical support and review of the transportation elements of the air quality plan. The FMATS structure fulfills the Clean Air Act requirements for local government and state agencies to provide a coordinated or "consultation" process to review the air quality attainment plan and the conformity analysis.

As a newly formed MPO, FMATS is required to develop a TIP and LRTP by FFY06. The conformity analysis included in this report evaluates the air quality impacts from the projects included in the TIP and the LRTP (through 2025). FMATS is producing its first official TIP and LRTP.

State Implementation Plan / Vehicle Emissions Budget - The most recent Fairbanks component of the State Implementation Plan (SIP) was adopted April 27, 2004. This action included the approval of the Fairbanks Motor Vehicle CO Emissions Budget. Transportation Control Measures (TCM's) included in the Implementation Plan focus on an electrical plug-in program, an oxygen sensor replacement program, OBD-I/M inspections of heavy-duty gas vehicles, and other measures (e.g., transit). Additionally, an episodic woodstove burning ban was add as a control measure.

Population Estimates - Historical population data used in this report includes the 1990 and 2000 U.S. Census counts for the Borough. The State demographer's estimate for the current 2005 borough population is 85,930. The future year forecasts were developed for the FMATS LRTP. The population census data and forecasts used for this report are summarized in Table 2.

Table 2
Population: Historical Data / Forecasts

	1990 Census	1995 Estimate	2000 Census	2025 Forecast
Fairbanks Area	35,600	37,700	37,600	47,800
North Pole Area	1,450	1,530	1,570	2,600
Urban Area Total	37,050	39,230	39,170	50,400

NOTES: The CO Maintenance Area (MA) includes the Fairbanks MA plus the City of North Pole MA.

TRANSPORTATION DEMAND MODEL / ROADWAY NETWORKS

The Traffic Demand Model is the primary planning tool used to develop and compare the area wide roadway travel data that results from both increased travel demands and roadway improvements. Historical 1990-2001Vehicle-Mile-Travel (VMT) data and projected 2003-2025 VMT data without improvements are summarized in Tables 3 & 4 and following graph.

Table 3
VMT: Historical Data / Forecasts

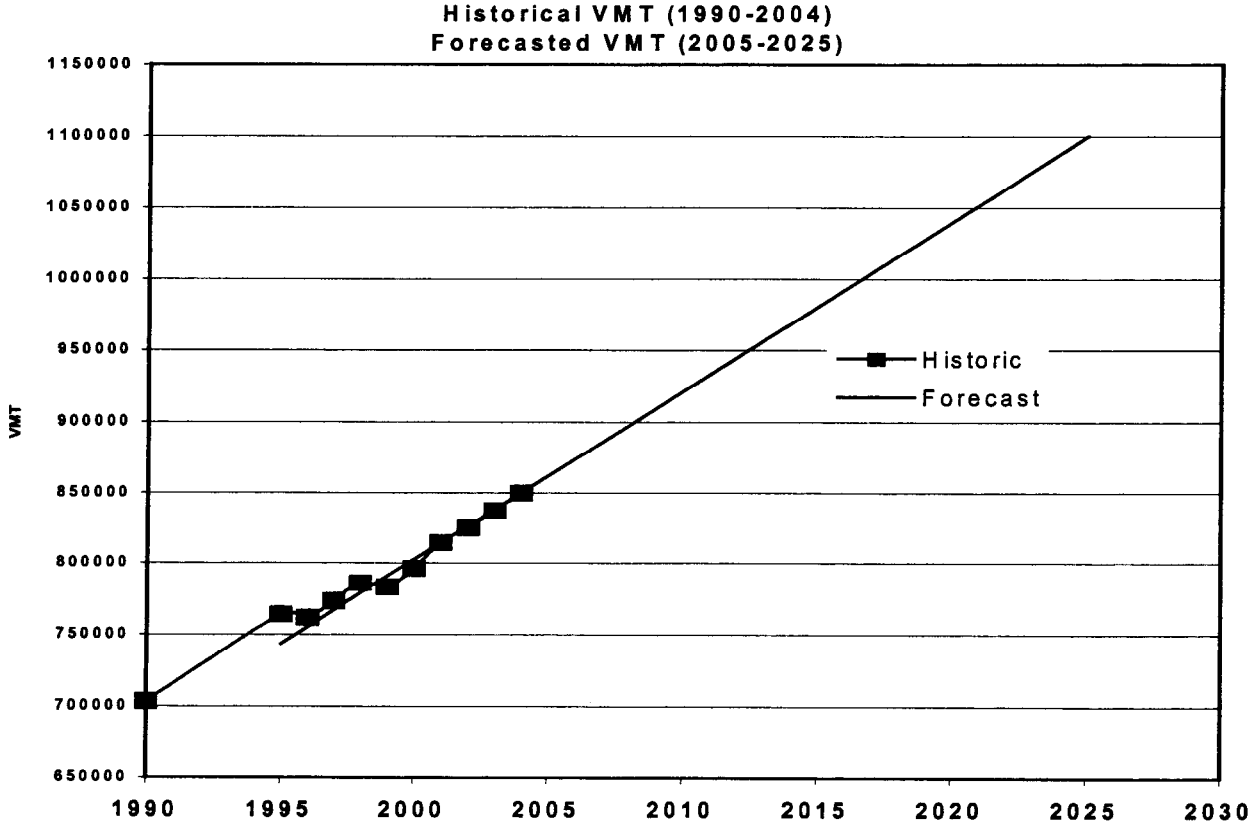
	1990 **	1995 **	2004 **	2025 Forecasts
Maintenance Area	703,381	763,956	814,469	1,100,000
Rural - FMATS Area	482,230	561,776	598,859	873,200
Rural - Outlying	272,536	293,414	311,859	424,300
Total Borough	1,458,147	1,619,147	1,725,186	2,397,500

** Source: Annual Traffic Volume Reports: DOT&PF Northern Region

Table 4
2004 Detailed Summary of Vehicle-Miles-Travel (VMT) **
Fairbanks CO Maintenance Area

Facility Type	(Aver-Annual) VMT	SPD	% VMT	Seasonal Factor	(Winter) (Wk-Day) VMT
Expressways	215,441	49.1	26.5	94.6%	203,807
Principal Arterials	163,698	32.0	20.1	94.6%	154,858
Minor Arterials	129,725	33.9	15.9	94.6%	122,720
Urban Collecters	213,601	30.5	26.2	94.6%	202,067
Local	92,004	25.0	11.3	94.6%	87,036
Urban Totals	814,469	35.6	100.0	94.6%	770,488

** Source: 2004 Annual Traffic Volume Report: DOT&PF Northern Region



Analysis Methodology

The winter on-road mobile source emissions for the urban maintenance area of Fairbanks were computed by combining the estimates of warm-up idling and plug-in benefits from AKMOBILE6 with the traveling emission factors from MOBILE6. Both models were used to establish the attainment demonstration and emissions budgets contained in the recently approved Maintenance Plan.[1] The years to be analyzed in this analysis were established via interagency consultation between representatives of FMATS, EPA, DEC, FNSB and DOT&PF,[2] and include calendar years 2006, 2010, 2015, and 2025. With the exception of the estimates of maintenance area VMT and average area speeds contained in the new TIP and LRTP, all the fleet, travel, I/M, and fuel characteristics employed in the Maintenance Plan were used in this analysis. Similarly, emissions were estimated using the soak time and initial idling time by trip type (home/work, home/other, and other/other) and the trip type distributions used in the Maintenance Plan. Copies of the AKMOBILE6 input files used in this analysis are included in Appendix A.

The emission estimates from AKMOBILE6 were further adjusted to account for the design of the Fairbanks I/M program, which targets 1975 and newer model year vehicles. The design of MOBILE6 does not allow the breakout of emissions from this specific year starting in calendar year 1999, because it assumes all vehicles 25 years old and older are in one group of vehicles that is 25 years old. Thus, I/M program benefits are overstated because they are applied to all vehicles in this category when they should be applied to just a fraction of the vehicles in this category. The same method used to address this issue in the Maintenance Plan was used in this analysis. A copy of the spreadsheet used to make the adjustment, which is minimal (i.e., it shows an increase of 0.066 tons/day in 2006 , which declines to 0.001 tons/day in 2025), is presented in Appendix A.

Another adjustment employed in the analysis was to estimate the number of average daily winter trips that will occur in each of the analysis years. Since the only estimate available is for calendar year 2002 (221,845 trips/day), the approach used was to increase them in proportion to the growth rate in VMT between the analysis years and 2002. This is the same method that was employed in the Maintenance Plan. The travel forecasts for the TIP and LRTP were obtained from DOT&PF.[3] Total winter daily VMT estimates were supplied for 2003 and 2025. Estimates for the intervening years were developed using interpolation, which showed an annualized growth rate of 1.54%. The total vehicle trips and VMT used in the analysis are shown in Table 5, along with the 2002 values used in the Maintenance Plan. A comparison of the travel estimates used in the Maintenance Plan[4] and new estimates for the TIP and LRTP the analysis years are shown in Table 6. As can be seen, the new forecasts show a substantial increase in travel relative to the previous estimates.

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[1] AKMOBILE6 version 1.9E dated October 28, 2003 and MOBILE version 6.2 .03 dated September 24, 2003, which is the newest version released by EPA.

[2] Email from Barbara Shepherd, Alaska DEC, July 6, 2005

[3] Email from Jeff Roach, Alaska DOT&PF, August 4, 2005.

[4] Email from Paul Prusak, Alaska DOT&PF, February 12, 2002.

Table 5
Fairbanks Urban Area Average Winter Daily Vehicle Trips and VMT

Calendar Year	Vehicle Trips	VMT
2002	221,845	761,418
2006	251,367	862,743
2010	267,212	917,126
2015	288,430	989,950
2025	336,054	1,153,406

Table 6
Comparison of Maintenance Plan and 2005 TIP/LRTP Winter VMT Projections for the Fairbanks Maintenance Area

Calendar Year	Maintenance Plan	2005 TIP/LRTP	% Difference
2006	799,455	862,743	7.9%
2010	839,393	917,126	9.3%
2015	892,132	989,950	11.0%
2025	1,007,760	1,153,406	14.5%

Estimates of speeds and VMT fractions by roadway facility for 2003 and 2025 were also obtained from DOT&PF. As the analysis was based on trip types and not facility type, an average network speed was computed by weighting facility specific speeds by their travel fractions for each of the analysis years. The average areawide speeds for 2006, 2010 and 2015 were then estimated by interpolating between the 2003 and 2025 speeds. This is an improvement over the Maintenance Plan where only one average network speed (35.4 mph) was available to characterize activity for each of the calendar years analyzed. The interpolation between the 2003 and 2025 speed data from DOT&PF resulted in the areawide average speeds shown in Table 7. Each calendar year model run reflected the average speed shown in the table.

Table 7
Fairbanks Urban Areawide Average Speed

Calendar Year	Average Speed (mph)
2003	35.6
2006	35.7
2010	35.7
2015	35.8
2025	36.0

AKMOBILE6 runs were generated for each analysis year using the 2-year I/M exemption reflected in the current Maintenance Plan and the 4-year I/M exemption that will be implemented starting in calendar year 2006.[5] A summary of the resulting on-road CO emission inventories, along with the adjustments for local controls estimated outside of the models is shown in Table 8.

[5] A revision to the Maintenance Plan to reflect the change from the 2-year exemption to the 4-year exemption is currently being developed. By developing emission estimates for both options, an assessment of conformity can be demonstrated for both so that no revisions to this analysis will be needed once the Maintenance Plan is updated.

The control measures and related emission benefit estimates are the same as those employed in the Maintenance Plan and include: heavy-duty gasoline vehicle (HDGV) OBD I/M, oxygen sensor replacement and other (transit).

Table 8
Fairbanks Urban Area Winter On-Road CO Emissions

Source Component	CO Emissions by Calendar Year in Tons/Day			
	2006	2010	2015	2025
Modeling With 2-Year I/M Exemption				
Extended Idle Emissions	6.66	5.38	4.87	4.18
Travel Emissions	17.85	14.23	12.70	16.67
Total Emissions	*24.51*	*19.62*	*17.56*	*20.86*
Additional Local Controls*	*1.04*	*0.29*	*0.40*	*0.00*
Total CO Inventory	*23.47*	*19.33*	*17.16*	*20.86*
Modeling With 4-Year I/M Exemption				
Extended Idle Emissions	6.66	5.38	4.87	4.18
Travel Emissions	17.92	14.30	12.77	16.67
Total Emissions	*24.58*	*19.69*	*17.64*	*20.86*
Additional Local Controls*	*1.04*	*0.29*	*0.40*	*0.00*
Total CO Inventory	*23.54*	*19.40*	*17.24*	*20.86*

* Includes HDGV OBD I/M, oxygen sensor replacement and other (transit).

Findings of Conformity

A comparison of the emission estimates for the 2005 TIP/LRTP under both the 2- and 4-year I/M exemption options with the emission budgets established in the Maintenance Plan is presented in Table 9. It shows that emissions for the TIP/LRTP are lower than the Maintenance Plan budgets for all of the analysis years. Since no budget was established for calendar year 2006, the first year of the TIP/LRTP specified for analysis by interagency consultation, the emission estimate for that year was contrasted with budget established for 2004. It should be noted that even if a budget value for 2006 was established by interpolation between the 2004 and 2010 values, the TIP/LRTP value would still conform as it is below the interpolated value of 25.34 tons/day in 2006.

Table 9
Comparison of Maintenance Plan Budgets and 2005 TIP/LRTP
Winter CO Emissions
(tons/day)

Emission Estimate	Analysis Year			
	2004	2010	2015	2025
Budget	26.77	22.95	22.57	22.57
TIP/LRTP 2-year exemption	23.47*	19.33	17.16	20.86
TIP/LRTP 4-year exemption	23.54*	19.40	17.24	20.86
Conformity Finding	Yes	Yes	Yes	Yes

*The values presented are for calendar year 2006, the first year specified for analysis by interagency consultation.

Based on these findings, Fairbanks demonstrates the conformity of its transportation program in accordance with Sections 93.109 – 93.118 of the Final Conformity Rule and parallel State of Alaska requirements in the Air Quality Control Plan and the Alaska Administrative Code Title 18, Chapter 50. This conformity determination uses the latest planning assumptions for current and future population, employment, travel and congestion. The final conformity determination is made according to the consultation procedures set out in the State regulations and federal guidelines.

Final FMATS 2006-2008 TIP

[illegible]	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
3847	**Fairbanks: Illinois-Barnette & Bridge** FMATS		2					
	Reconstruct Illinois Street (1st Ave. - College), proposed Barnette St. Bridge and reconstruction of Barnette Street (1st Ave. - 7th Ave.)		3	1,125.0	625.0			
	FMATS		7	625.0	1,125.0			
	FMATS		4		0.0	4,366.0	1,029.5	
	Project Total			1,750.0	1,750.0	4,366.0	1,029.5	
3821	**Fairbanks: University Avenue Widening** FMATS		2					
	Major upgrade of University Ave (Mitchell Expressway-College Rd), including replacing the Chena River Bridge and related bike / pedestrian facilities.		3	1,675.0				
	FMATS		7	0.0	872.5			
	FMATS		4		0.0	1,274.0	2,296.5	1,02
	Project Total			1,675.0	872.5	1,274.0	2,296.5	1,02
3868	**Fairbanks: 2nd/Wilbur**							
	Upgrade Wilbur Street (Airport Way - 2nd Ave.) and 2nd Ave. (Wilbur - Stewart), including shoulders for on-street parking, bike lanes, curbs, gutters and sidewalks.		4	4,250.0				
	Project Total			4,250.0	0.0	0.0	0.0	0
13699	**Fairbanks: College Road Rehab (Univ. to Danby) & Intersection**		2	250.0				
	Rehabilitate and repave College Road (University -Danby), includes constructing a new sidewalk from Alaska from Alaska Way to Aurora Drive, adding left turn lane on College and Danby, and other intersection improvements along College Road.		3	300.0				
			7	150.0				
			4					0
	Project Total			700.0	0.0	0.0	0.0	0
16103	**Fairbanks: Cowles Street Upgrade**		2					
	Upgrade Cowles Street (19th Avenue to 23rd Avenue) and 21st Avenue (Cowles - Lathrop), including grading and drainage, illumination improvements, paving and construction of sidewalks.		3					
			7					
			4		2,500.0			
	Project Total			0.0	2,500.0	0.0	0.0	0

Final FMATS 2006-2008 TIP

ID #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
17975	**Fairbanks: Lacey / Noble**		2					
	Reconstruct Noble Street (1st - 12th); reconstruct Lacey Street (1st - 4th), including new pavement, sidewalks, highway lighting and landscaping. Improvements will also include traffic signal improvements. Repave and restripe Lacey Street (4th - 12th). CM		3	200.0				
			7		500.0			
			4			0.0	1,300.0	3,500
	Project Total			200.0	500.0	0.0	1,300.0	3,500
3839	**Fairbanks: Phillips Field Road Upgrade**		2	600.0				
	Rehabilitation and safety improvements bwtween Peger Road and Illinois Street, including roadway widening and realignments, the addition of shoulders and a separated bicycle / pedestrian facility.		3		1,450.0			
			7			0.0	2,000.0	
			4					1,850
	Project Total			600.0	1,450.0	0.0	2,000.0	1,850
3843	**Fairbanks: S. Cushman (Gaffney - 17th)**		2					
	Reconstruction of South Cushman (Gaffney - 17th), including major upgrade of the Airport Way / Cushman Intersection. Additional northbound and southbound lanes and the addition of a protected left turn phase in the signal phasing .		3	0.0		2,000.0		
			7	0.0		2,000.0		
			4				0.0	4,000
	Project Total			0.0	0.0	4,000.0	0.0	4,000
12425	**Fairbanks: Van Horn Road Rehab / Safety Improvements**		2					
	Widen & upgrade Van Horn Road from Cushman Street to Peger Road including widening for a continuous center left-turn lane, traffic signal at Van Horn / Lathrop, illumination and replacement of aging pavement structure.		3					
			7	521.2				
			4	1,381.3	← 3,277.5			
	Project Total			1,902.5	3,277.5	0.0	0.0	0.
3846	**FNSB: Holmes Road Reconstruction (FMATS)**		2	300.0				
	Reconstruct and widen 2.8 miles of Holmes Road (Dennis Road - Badger Road / Peede Road), including construction of drainage ditch from Holmes Road to the Chena River.		3			500.0		
			7					
			4					
	Project Total			300.0	0.0	500.0	0.0	0.

Final FMATS 2006-2008 TIP

	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
9947	**FNSB: Nordale Road Pavement Rehabilitation**		2		100.0			
	Rehabilitate roadway pavement from Badger Road to the Little Chena River.		4					
	Project Total			0.0	100.0	0.0	0.0	
6261	**North Pole: Old Richardson Highway Improvements**		2					
	Major upgrade of approximately 3 miles of the Old Richardson Highway (Laurance Road to Richardson Highway), including a bicycle / pedestrian path.		3					
			7					
			4	0.0				
	Project Total			0.0	0.0	0.0	0.0	
New	**Preventative Maintenance Program**		2					
			3					
			7					
			4	300.0	200.0	300.0	154.0	200
	Project Total			300.0	200.0	300.0	154.0	200
	CTP - Projects With No Prior Obligations							
NEW	**Fire Station / Police Station Traffic Revision**		2	400.0				
	Make Cushman Street 2-way from 10th Avenue to Gaffney Road. Revise traffic signals and remove Gaffney Road intersection island.		3		50.0			
			7		100.0			
			4				1,450.0	
	Project Total			400.0	150.0	0.0	1,450.0	0
NEW	**Cushman Street Reconstruction**		2	900.0	0.0		670.0	
	Reconstruct Cushman Street from 1st Avenue to Gaffney Road.		3					300
			7					
			4					
	Project Total			900.0	0.0	0.0	670.0	300
12422	**FNSB: Chena Pump / Chena Small Tracts Safety**		2	470.0		0.0		
	Construct 5 lanes from Palo Verde Avenue to Despain Lane, including a new 5-lane bridge as welll as replacement of the pedestrian bridge.		3					120
			7					
			4					
	Project Total			470.0	0.0	0.0	0.0	120

Final FMATS 2006-2008 TIP

ID #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
3829	**Fairbanks: S. Cushman (Mitchell - Van Horn)**		2	250.0	0.0		250.0	
	Rehabilitate and upgrade S. Cushman from Mitchell Expressway to Van Horn Road.		3					
			7					
			4					
	Project Total			250.0	0.0	0.0	250.0	0
16205	**Fairbanks: S. Cushman (17th - Mitchell)**		2			360.0		0
	Rehabilitate and upgrade S. Cushman from 17th Avenue to the Mitchell Expressway.		3					
			7					
			4					
	Project Total			0.0	0.0	360.0	0.0	0
16104	**Fairbanks: Gillam St Upgrade**		2		200.0		250.0	0
	Upgrade Gillam Street from Airport Way to 19th Avenue.		3					
			7					
			4					
	Project Total			0.0	200.0	0.0	250.0	0
NEW	**2nd / Moore Street Realignment & Airport Way Intersection**		2					
	Realign 2nd Avenue between Wilbur Street and Moore Street. Construct a new intersection from Moore Street onto Airport Way.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
15102	**FNSB: Plack Rd Upgrade / Dawson Extension**		2					
	Upgrade Plack Road and extend Dawson Road north to Plack Road.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
10568	**FNSB: Yankovich / Miller Hill Rd Upgrade**		2					
	Reconstruct Yankovich and Miller Hill Roads between Ballaine Road and Sheep Creek Road. Work includes widening with shoulders, drainage improvements, and paving.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0

Final FMATS 2006-2008 TIP

TIP #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
9943	**Fairbanks: Cartwright Road Rehab / Surfacing**		2					
	Rehabilitate and pave Cartwright Road for the first mile west of Peger Road.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
9946	**FNSB: Bradway Rd Reconstruction**		2					
	Reconstruct Bradway Road (in the North Pole area) between Dennis Road and Badger Elementary School.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
NEW	**Homestead Road / NPHS Blvd Extension**		2					
	Extend Homestead Road and NPHS Boulevard.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
NEW	**Cowles Street Reconstruction**		2					
	Reconstruct cowles Street from 1st Avenue to 10th Avenue.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
6359	**Fairbanks: Chena River / Wendell St Bridge**		2					
	Repair bridge deck.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
17181	**Fairbanks: 2nd / 3rd / Wickersham Uprgrade**		2					
	Upgrade 2nd Avenue from Barnette Street to Cowles Street, 3rd Avenue from Barnette Street to Cowles Street, and Wickersham Street from 1st Avenue to 6th Avenue.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
6587	**FNSB: McGrath Rd Upgrade**		2					
	Upgrade lower McGrath Road (Farmer's Loop-Crystal Drive).		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0

Final FMATS 2006-2008 TIP

ID #	Project Description		Phase	FFY 06	FFY 07	FFY 08	FFY 09	FFY 10
17089	**FNSB: Tanana Dr Extension (UAF)**		2					
	Extend and realign Tanana Loop Drive to connect with North Tanana Drive.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
NEW	**Gaffney Road Reconstruction**		2					
	Reconstruct Gaffney Road from Barnette Street to Noble Street.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
NEW	**Davis and Snowman Rehabilitation**		2					
	Rehabilitate Davis Blvd and Snowman Lane. Upgrade pedestrian facilities.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
NEW	**Wilbur Street Extension**		2					
	Extend Wilbur Street north of 2nd Avenue and construct a turnaround.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
	FMATS TRAAK Projects							
3869	**TRAAK / FMATS ADA Pedestrian Facilities**		2					
	Pedestrian facility improvements to meet Americans with Disabilities Act standards.		3					
			7		0.0	0.0	0.0	
			4		0.0	0.0	0.0	
	Project Total			0.0	0.0	0.0	0.0	0
12800	**TRAAK / Fairbanks: Tanana Valley RR Trainhouse/Museum**		2					
	Construct a 3,000 SF structure at Pioneer Park to house and support operations of the restored Tanana Valley Engine#1. The proposed two part building will also include a museum with a focus on the history of the Tanana Valley Railroad and railroad transportation.		3					
			4					
	Project Total			0.0	0.0	0.0	0.0	0

ID #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
	TRAAK - Projects With No Prior Obligations							
10568	**FNSB: Yankovich / Miller Hill Rd Multi-Use Path**		2	330.0				
	Construct a separated bicycle / pedestrian trail along Yankovich and Miller Hill Roads in the Farmers Loop / University of Alaska area.		3					
			7					
			4				1,500.0	
	Project Total			330.0	0.0	0.0	1,500.0	0
NEW	**Richardson Highway North Pole Interchange Pedestrian Facilities**		2			200.0		
	Construct pedestrian facilities to connect existing facilities to the new North Pole Interchange.		3				75.0	
			7				25.0	
			4					
	Project Total			0.0	0.0	200.0	100.0	0
8721	**TRAAK / North Pole Bike Path Rehab / Connections**		2					
	Construct and Rehab bike paths in North Pole.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
NEW	**Hoselton Road Bike / Ped Path**		2					
	Construct pedestrian facilities from Pike's Landing to the Parks Highway.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
6598	**TRAAK / FNSB: Farmers Loop - Chena Hot Springs Rd Tail Connection**		2					
	All season trail connection.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
3831	**TRAAK / Fairbanks: Steamship Nenana Renovation**		2					
	Additional restoration work on sternwheeler Nenana.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0

Final FMATS 2006-2008 TIP

ID #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
3853	**TRAAK / FNSB: Farmers Loop - Dogmushers Sanitary Wayside**		2					
	Outhouse to serve bike path and dog mushing trailhead.		3					
			7					
			4					
	Project Total			0.0	0.0	0.0	0.0	0
	TRAAK / Fairbanks: NR Bike Path (Chena River Bend)		4					
	Project Total			0.0	0.0	0.0	0.0	0
	Northern Region FY05 Offset			4,239.0				
	FMATS CTP & TRAAK Allocation			**14,027.5**	**11,000.0**	**11,000.0**	**11,000.0**	**11,000**
	TVRR Trainhouse/Museum							
	Projects Programmed to FMATS CTP & TRAAK			**14,027.5**	**11,000.0**	**11,000.0**	**11,000.0**	**11,000**
	Balance Available for Programming by FMATS							
	CMAQ Projects							
	FNSB / CMAQ - Oxy-Sensor Program		all					
	FNSB / CMAQ - Advanced OBD-II Training		all					
	FNSB / CMAQ - Coordinated Transit		all			0.0	0.0	
	FNSB / CMAQ - Electrical Plug-ins		all					
	FNSB / CMAQ - Bus Stop Shelters		all	300.0				
	FNSB / CMAQ - Bus Fleet Replacement		all					
	FNSB / CMAQ - Paratransit		all		330.0	350.0	175.0	400.
3869	**Fairbanks: Wendell Street ADA**		4	400.0				
	Reconstruct sidewalk, curb and ramps to meet ADA standards from Wendell Street Bridge to Noble Street.							
	FNSB / CMAQ - Low Sulfer Fuels (LSF) Impact Study					350.0		
	FNSB / CMAQ - North Pole Park and Ride					725.0		
	FNSB / CMAQ - New Buses / New Routes		all	1,300.0	1,200.0			
	Statewide CMAQ Discretionary				**1,530.0**	**1,425.0**	**175.0**	**400.**
	FMATS CMAQ Allocation =			**2,000.0**	**0.0**	**0.0**	**0.0**	**0.**
	Projects Programmed to FMATS CMAQ =			**2,000.0**	**1,530.0**	**1,425.0**	**175.0**	**400.**
	Balance Available for Programming by FMATS =							

Final FMATS 2006-2008 TIP

ID #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
	Anticipated Federal Earmarks							
	North Pole Citywide Pavement Rehabilitation			426.0	193.0	197.0	184.0	
	Fairbanks Road Improvements			2,130.0	965.0	985.0	920.0	
	FNSB Road Improvements & Upgrades			2,130.0	965.0	985.0	920.0	
	Fairbanks Freight Demonstration Project			2,130.0	965.0	985.0	920.0	
	Fairbanks O'Connor Road Bridge Replacement			250.0				
	Morris Thompson CVC Intermodal Parking Facility			1,065.0	482.5	492.5	460.0	
	North Star Borough, AK Transit Purposes			426.0	193.0	197.0	184.0	
	North Pole Homestead Rd/NPHS Blvd Extension			500.0				
	Federal Earmark Funds Total			9,057.0	3,763.5	3,841.5	3,588.0	

Final FMATS 2006-2008 TIP

ID #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY
	**** FMATS Draft TIP 2006-2008 Summary ****							
	FMATS (CTP + TRAAK) Programmed			**14,027.5**	**11,000.0**	**11,000.0**	**11,000.0**	**11,00**
	CMAQ Programmed			2,000.0	1,530.0	1,425.0	175.0	40
	FMATS Section 115 Earmarks (Fed $ + State Match)							
	FMATS Totals (All Projects)		=	16,027.5	12,530.0	12,425.0	11,175.0	11,40
				16,027.5	**12,530.0**	**12,425.0**	**11,175.0**	**11,40**

ID #	Project Description		Phase	FFY	FFY07	FFY	FFY	FF
	Total Funding Allocation FY05							
	Total Funding (Allocation + Trainhouse + Fix)		=	**11,788.5**	**12,530.0**	**12,425.0**	**11,175.0**	**11,40**
	FMATS STIP Allocation							
	FMATS CTP & TRAAK		FMATS	9,788.5	11,000.0	11,000.0	11,000.0	11,00
	CMAQ Program		CMAQ	2,000.0	1,530.0	1,425.0	175.0	40
	Totals =			11,788.5	12,530.0	12,425.0	11,175.0	11,40

ID #	Project Description		Phase	FFY	FFY07	FF	FF	FF
3847	**Fairbanks: Illinois-Barnette & Bridge**	CTP	2					
	Reconstruct/upgrade Illinois Street & Barnette (College Rd-7th)	CTP	3	3,375.0	1,875.0			
	(These amounts are based upon 75% of current estimates. However, grandfathering may not cover estimate increases.		7	1,875.0	3,375.0			
		CTP	4	0.0	0.0	3,970.5	0.0	0
	Project Total			5,250.0	5,250.0	3,970.5	0.0	0
3821	**Fairbanks: University Avenue Widening**	CTP	2	0.0				
	Major upgrade of University Ave (Mitchell Expressway-College Rd). Includes replacing the Chena River Bridge.	CTP	3	5,025.0				
	(These amounts are based upon 75% of current estimates. However, grandfathering may not cover estimate increases.		7	0.0	2,617.5			
		CTP	4		0.0	3,822.0	6,889.5	3,088
	Project Total			5,025.0	0.0	3,822.0	6,889.5	3,088

Final FMATS 2006-2008 TIP

ID #	Project Description		Phase	FFY06	FFY07	FFY08	FFY09	FFY10
3821	Fairbanks: 2nd Avenue/Moore St Realignment and Int		2	300.0				
	GF		3					
	GF		7			200.0		
	GF		4				2,000.0	
	Project Total			300.0	0.0	200.0	2,000.0	
3821	Fairbanks: Cartwright Rd Extension		2	550.0				
	GF		3		100.0			
	GF		7		100.0			
	GF		4			2,900.0		
	Project Total			550.0	200.0	2,900.0		
3821	Fairbanks: Gaffney Rd Upgrade		2	815.0				
	GF		3			20.0		
	GF		7			1,000.0		
	GF		4				4,415.0	
	Project Total			815.0	0.0	1,020.0	4,415.0	
3821	Fairbanks: 2nd, 3rd, and Wickersham Upgrade		2	400.0				
	GF		3			300.0		
	GF		7			300.0		
	GF		4				2,500.0	
	Project Total			400.0	0.0	600.0	2,500.0	
3821	Fairbanks: Wilbur St Extension		2	150.0				
	GF		3					
	GF		7					
	GF		4			850.0		
	Project Total			150.0	0.0	850.0		

DRAFT FMATS 2006 - 2008 TIP
Alaska Railroad Projects

TYPE	Area	Project Description	Phase	FFY06	FFY07	FFY08	FFY0
AKRR	Fairbanks	**Eielson Branch Realignment**	2				
		The Alaska Railroad Corporation (ARRC) proposes to realign approximately 20 miles of track on the Eielson Branch around urban and rural commercial, residential , and military areas between Fort Wainwright and Eielson Air Force Base (AFB). Major users in this corridor inculde Ft. Wainwright, Eielson AFB, and a North Pole refinery. The existing track generally parallels the four-lane Richardson Highway. Other major crossings include a main gate to Fort Wainwright and several main downtown roads in North Pole. The 28 at-grade crossings (including four flashing-gated crossings over urban rural primary highways) create safety concerns, and train speed throught the corridor is limited to 15 miles per hour or slower.	3	500.0			
			7		250.0		
			4			1,000.0	
		Project Total		**500.0**	**250.0**	**1,000.0**	
AKRR	Fairbanks	**Northern Rail Extension**	2				
		The Alaska Railroad (ARRC) seeks to extend its mainline track from the crossing at Moose Creek / Richardson Hwy, near Eielson Air Force Base, 80 miles southeast to Fort Greely, near Delta Junction. The extension includes a 15 mile spur from Flag Hill to Blair Lakes Military Training Area.	3	4,000.0			
			7		4,000.0		
			4			4,700.0	
		Project Total		**4,000.0**	**4,000.0**	**4,700.0**	

NHS Projects within FMATS Boundary

Number	Highway	Location	Project Description / Funding Source					Beyond
2107	Steese	Fairbanks	**Steese Highway / 3rd Street Intersection**	2				
			Major reconstruction to include through lanes and turn lanes on 3rd Street at the intersection with the Steese Highway. Targeted highway improvement to serve Stranded Gas Development Act and construction of gas pipeline.	3				
				7	3,000.0			
				4			4,600.0	
			Project Total		**3,000.0**	**0.0**	**4,600.0**	**0.0**
17976		Fairbanks	**NHS Noise Study**	2	50.0			
			Conduct a traffic generated noise study / reconnaissance at selected locations on the National Highway system within the Fairbanks Metropolitan Planning Area.	3				
				7				
				4				
			Project Total		**50.0**	**0.0**	**0.0**	**0.0**
2108		Fairbanks	**Airport Way Corridor Capacity and Safety Improvments**	2		200.0		
			Capacity and safety improvements.	3			2,000.0	
				4				
			Project Total		**0.0**	**200.0**	**2,000.0**	**10,000.0**
17129		Fairbanks	**Airport Way Frontage Road Lathrop High School Realignment**	2		100.0		
			Realign the Airport Way Frontage Road near Lathrop High School.	3				
				4			600.0	
			Project Total		**0.0**	**100.0**	**600.0**	**0.0**
15685		Fairbanks	**Fairbanks: Airport Road Intersection Improvements**	2				
			Resolve the access problems to Airport Road, Dale Road and the Airport Access Road.	3	400.0			
				7	200.0			
				4		3,100.0		
			Project Total		**600.0**	**3,100.0**	**0.0**	**0.0**
6657		Fairbanks	**Airport / Cushman Intersection Improvements**	2				
			Upgrade the intersection of Airport Way and Cushman Street.	3				
				7	4,300.0			
				4				
			Project Total		**4,300.0**	**0.0**	**0.0**	
11839		Fairbanks	**Johansen Expressway / Alaska Railroad Access**	2				
			Reconnaissance for new intersection for access to the new Alaska Railroad passenger terminal site.	3				
				7				
				4				
			Project Total		**0.0**	**0.0**	**0.0**	

NHS Projects within FMATS Boundary

			Project Description / Job					
6098	Parks		MP 351-356 Rehabilitation	2				
			Resurface, rehabilitate and restore. Project includes a bike trail from Ester to Fairbanks.	3				
				7				
				4		7,850.0		
			Project Total		**0.0**	**7,850.0**	**0.0**	
10544	Richardson	North Pole	MP 350 Badger Interchange Ramp and Intersection Improvements	2				
			Improvements to the highway overpass ramps and intersections at North Pole. Targeted highway improvement to serve Stranded Gas Development Act and construction of gas pipeline.	3				
				7				
				4	2,750.0			
			Project Total		**2,750.0**	**0.0**	**0.0**	
2130	Richardson		MP 354 - 357 Access / Safety Improvements (HSIP)	2				
			Access and safety improvments. Targeted highway improvement to serve Stranded Gas Development Act and construction of gas pipeline.	3	200.0			
				7	50.0			
				4		3,500.0		
			Project Total		**250.0**	**3,500.0**	**0.0**	
7371	Richardson		MP 357 Fairbanks New Weigh Station	2				
			New weighing system facility to facilitate simultaneous axle group and gross weight indicaitons for truck weight enforcement. Targeted highway improvement to serve Stranded Gas Development Act and construction of gas pipeline.	3				
				7	75.0			
				4	3,400.0			
			Project Total		**3,475.0**	**0.0**	**0.0**	
13139	Richardson	North Pole	MP 348.7 North Pole Interchange	2				
			Construct interchange in the North Pole area. Targeted highway improvement to serve Stranded Gas Development Act and construction of gas pipeline. GARVEE and STIP funding included.	3				
				7				
				4	14,352.0	7,147.2		
			Project Total		**14,352.0**	**7,147.2**	**0.0**	
11899	Steese		MP 1- 2 Overlay & Capacity Imp. - College Road - Johansen Expwy	2	500.0			
			Improvements to increase safety and capacity. Targeted highway improvement to serve Stranded Gas Development Act and construction of gas pipeline.	4				
			Project Total		**500.0**	**0.0**	**0.0**	
			Non-FMATS Allocation within boundary NHS Yearly Totals		**29,277.0**	**21,897.2**	**7,200.0**	**20,500.0**